

GLAST Monthly PSR

April 7, 2004

GBM

Bill Browne
GBM Instrument Manager

- 1



Accomplishments

- u ***GBM Quarterly was held at GSFC, March 3rd.***
- u ***GBM has accepted Astrium (Germany) proposal for GSE Power Supply and PS thermal model, work started.***
- u ***GSFC/GLAST has made an outstanding team contribution to GBM, working to resolve the MPE parts shortfall by using their broad contacts to locate/tap NASA excess parts.***
- u ***Rushed MSFC procurement is underway to acquire the critical parts for MPE EQMs that were not available from excess.***
- u ***DPU EU#1 was delivered to NSSTC March 8th, acceptance testing completed, DPU #2 returned to SwRI for upgrades.***
- u ***NSSTC received mechanical GBM detector models from MPE.***
- u ***SAI delivered the SDIS to NSSTC on March 15th.***



Issues/Problems

- u ***SAI coupled thermal model analysis results indicate that the current GBM-SC accommodation does not meet the detector operational & survival temperature requirements. GBM has developed what appears to be a viable alternative to the German thermal radiator design. GBM & SAI are proceeding to construct a pros & cons matrix for discussion this week. The goal is to reach a final decision prior to the SC CDR dry run.***
- u ***MPE funding shortages are impacting the parts procurement /schedule for the German GBM EQM and likely the flight deliveries to NSSTC. MSFC expects to wrap up their procurement effort by this Friday, vendor delivery dates known. GBM has begun schedule discussions with the Germans in an attempt to protect the flight deliveries to SAI.***



Upcoming Events

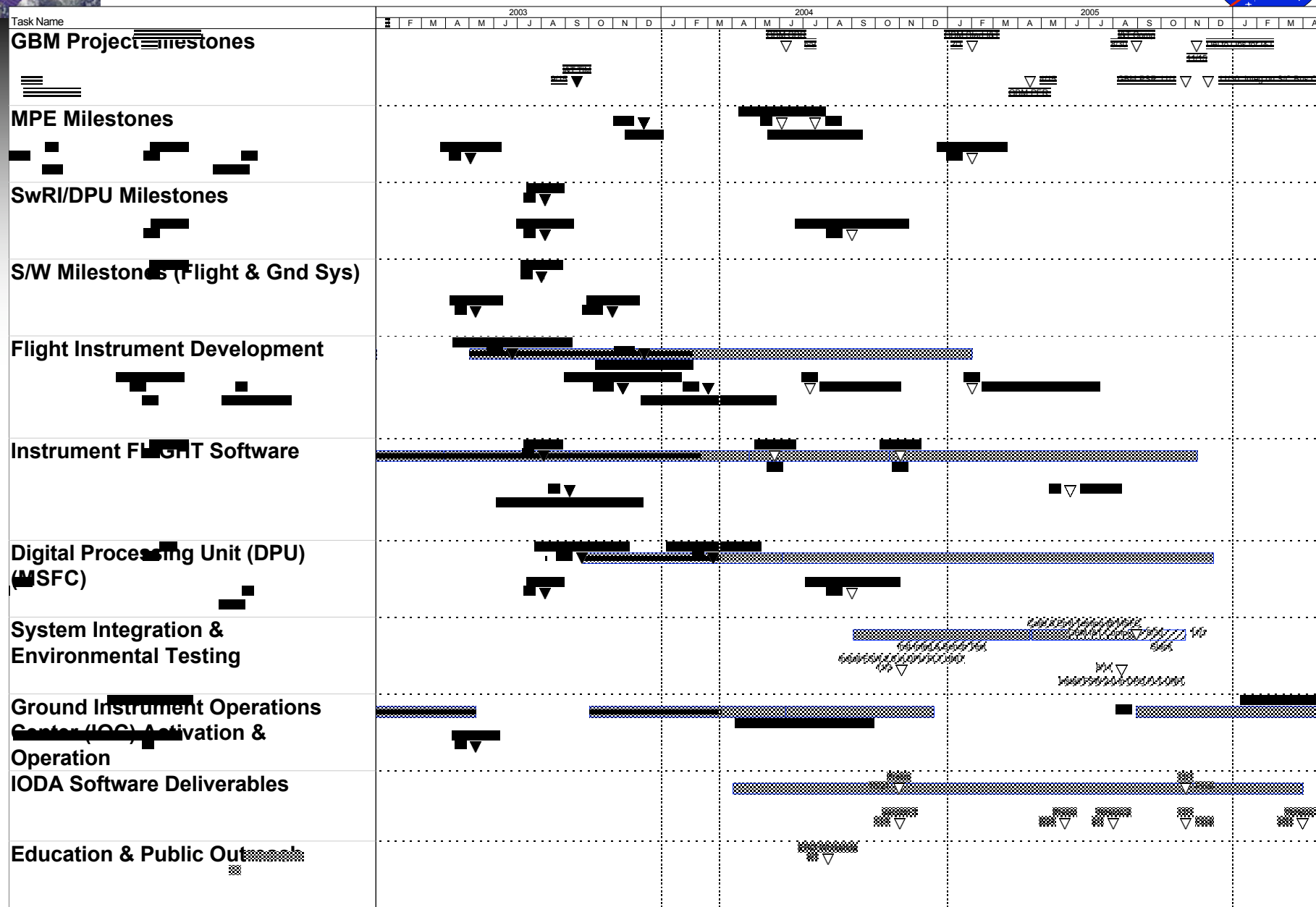
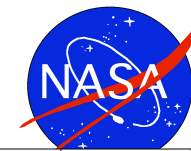


- υ ***Complete the GBM schedule reprogramming effort, May PSR***
- υ ***GBM System Level CDR scheduled for June 29, 2004***



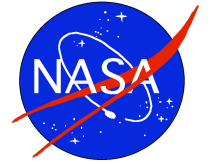
GBM Master Schedule

March 15, 2004



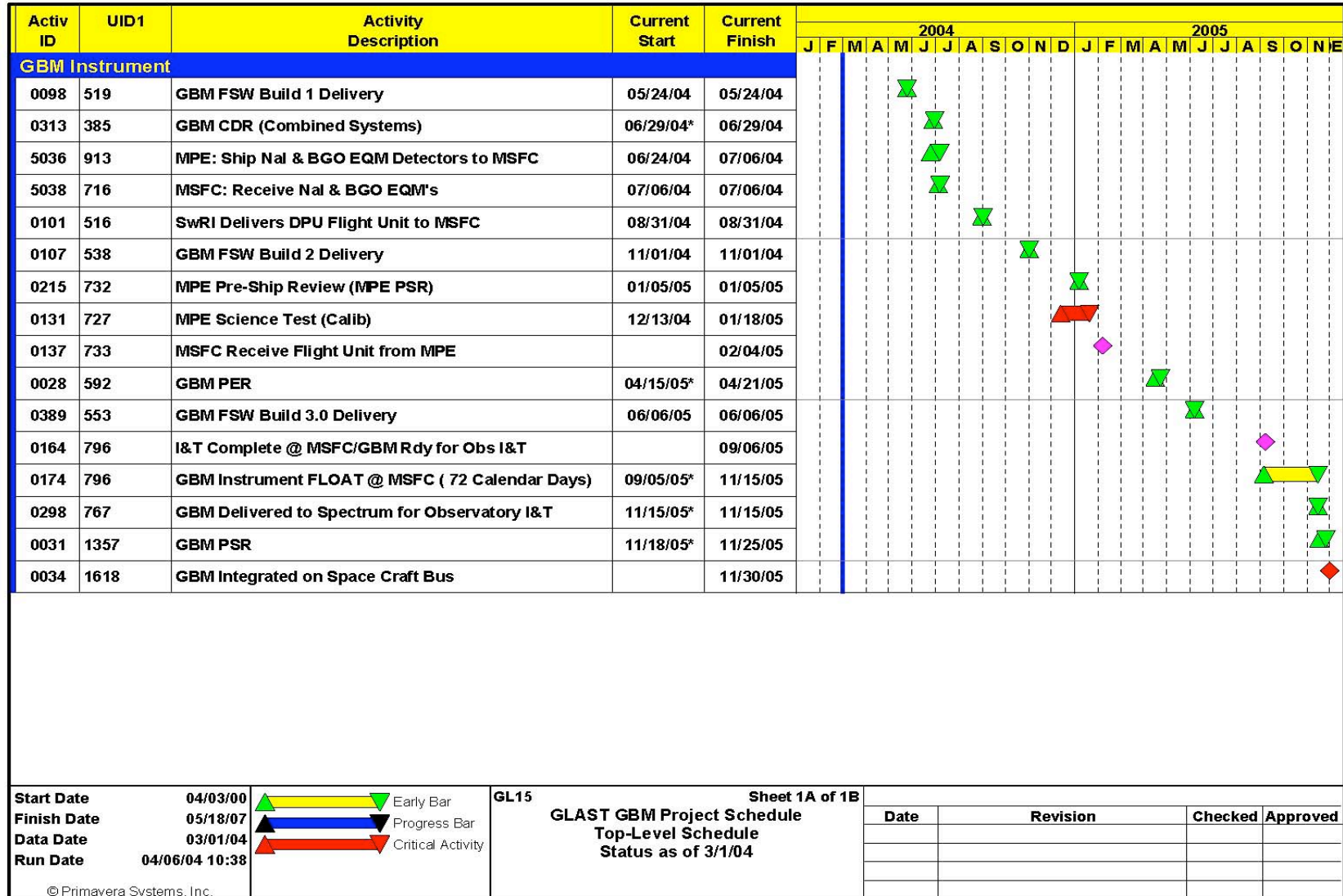


GBM Structural Models



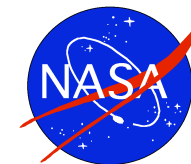


GBM Top Level Schedule





Rolling Wave Schedule



Activ ID	Activity Description	Current Start	Current Finish	2004				
				MAR	APR	MAY	JUN	JUL
GBM Instrument								
GBM Top-Level Milestones								
0098	GBM FSW Build 1 Delivery	05/24/04	05/24/04					
0313	GBM CDR (Combined Systems)	06/29/04*	06/29/04					
GBM Instrument Development								
GBM Engineering Model								
GBM NAI								
0311	Nal EQM Detector Testing @ DJO	03/01/04	03/19/04					
0305	DJO: Deliver Nal EQM to MPE	05/25/04*	05/25/04					
0315	DJO: Nal EQM Detector Testing Complete	05/25/04*	05/25/04					
GBM BGO								
6095	DJO: Assemble Detector FEE Housings	01/22/04A	03/01/04					
0562	MPE: Procure BGO EQM Detector Housing	01/15/04A	03/01/04					
0592	Procurement of BGO EQM Detector Housing Complete	03/02/04	03/02/04					
0312	MPE: Procure BGO EQM Detector PMT Assembly Parts	11/12/03A	03/03/04					
0342	Procure BGO EQM Detector PMT Assembly Parts	03/04/04	03/04/04					
0372	DJO: Start Integration of BGO EQM Detector Compo	03/05/04	03/05/04					
6105	DJO: Assemble FEE's (16)	01/30/04A	03/15/04					
6075	Detector FEE's Ready for Integration	03/15/04	03/15/04*					
0382	DJO: Integrate BGO EQM Detector Components	03/08/04	03/31/04					
8071	Assemble EQM FEE PCB's (3)	01/19/04A	04/16/04					
8091	Inspect EQM FEE PCB's (3 EQM + 1 Spare)	04/16/04	04/16/04					
8081	EQM FEE Mechanical & PCB Integration & Testing	04/19/04	04/30/04					

Start Date	04/03/00		Early Bar
Finish Date	05/18/07		Progress Bar
Data Date	03/01/04		Critical Activity
Run Date	04/06/04 09:39		

GL15

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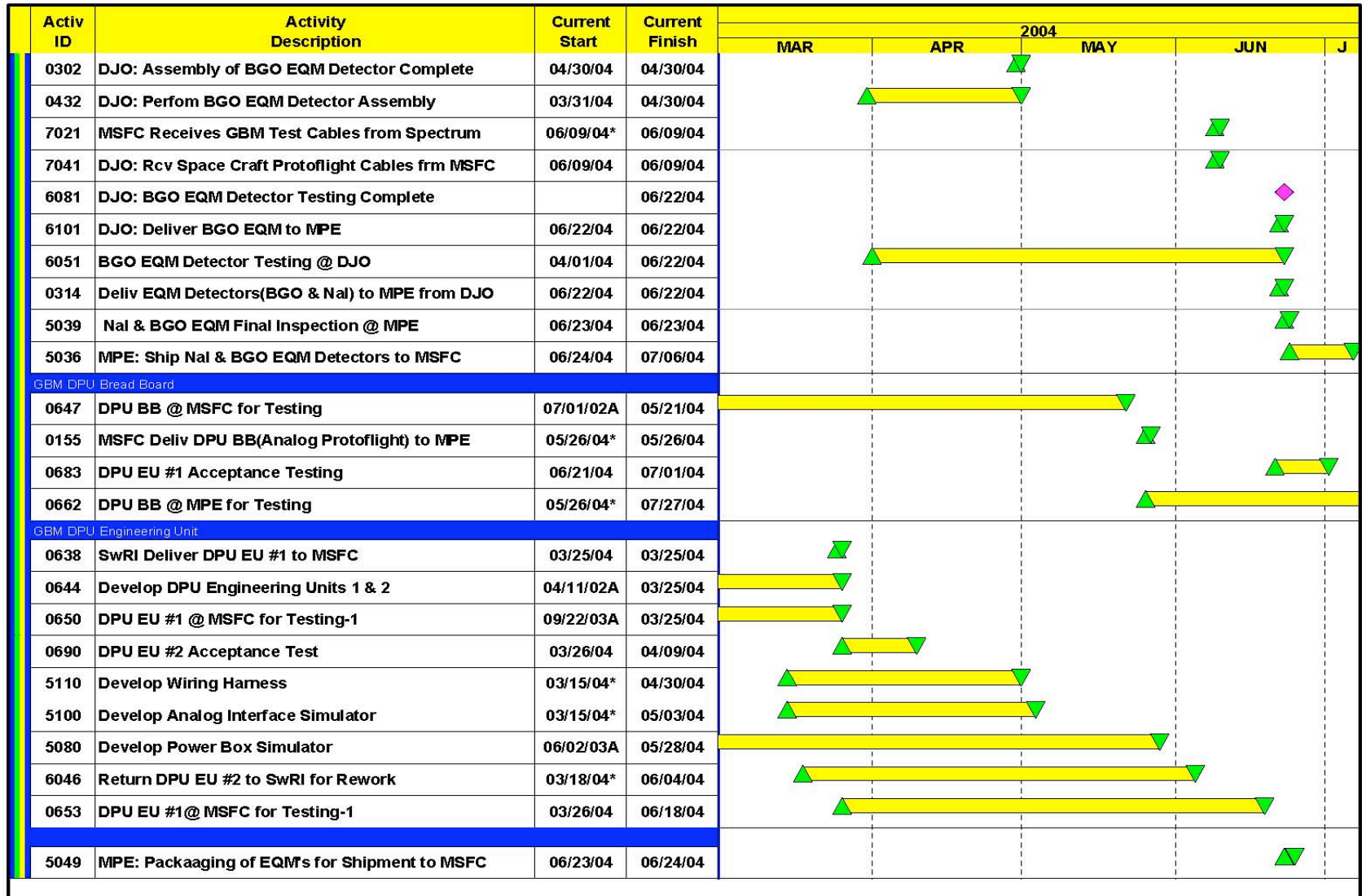
GLAST GBM Project Schedule
Rolling Wave
Status as of 3/1/04

Date	Revision	Checked	Approved

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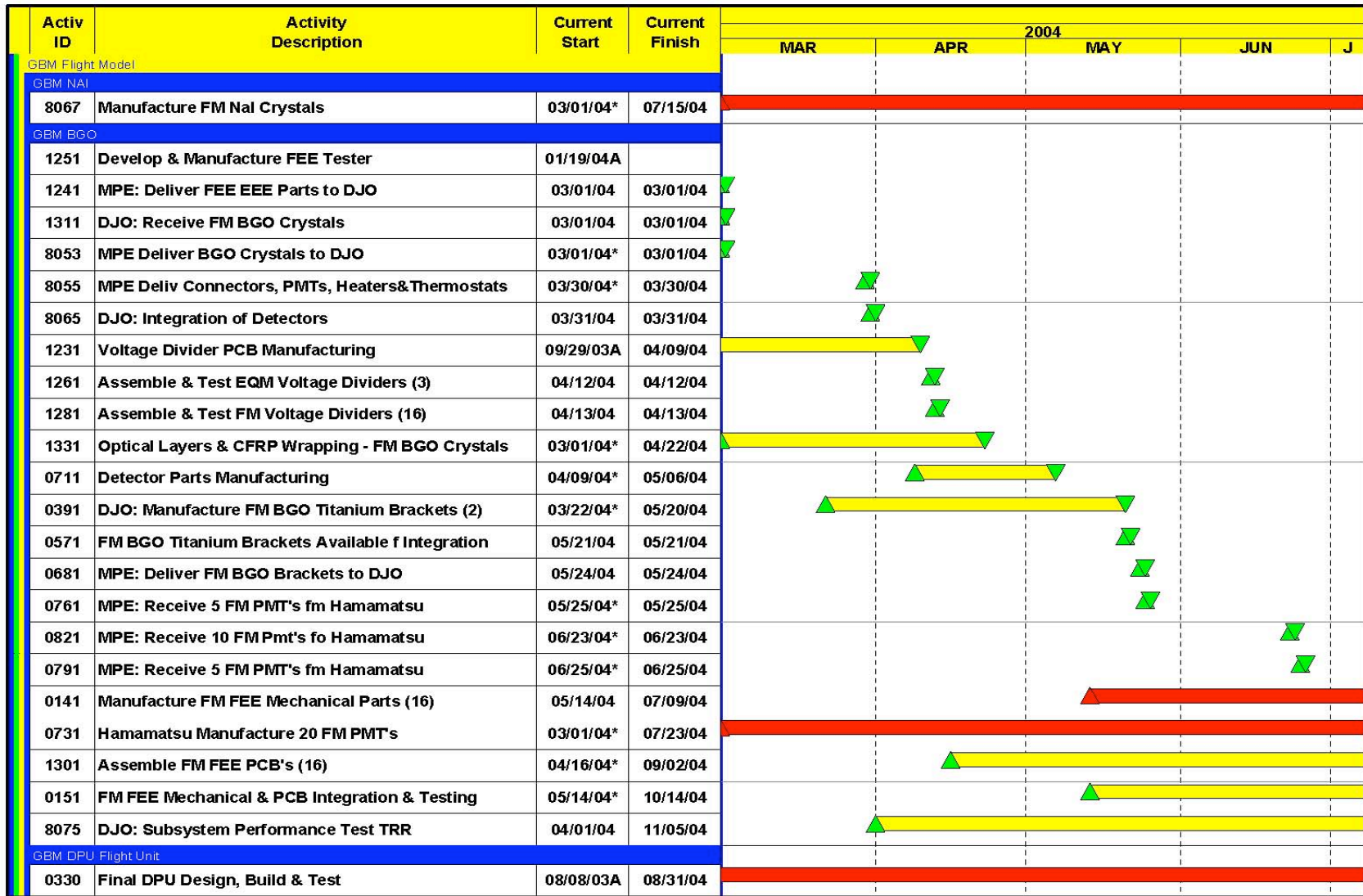
Rolling Wave Schedule



Sheet 2 of 5



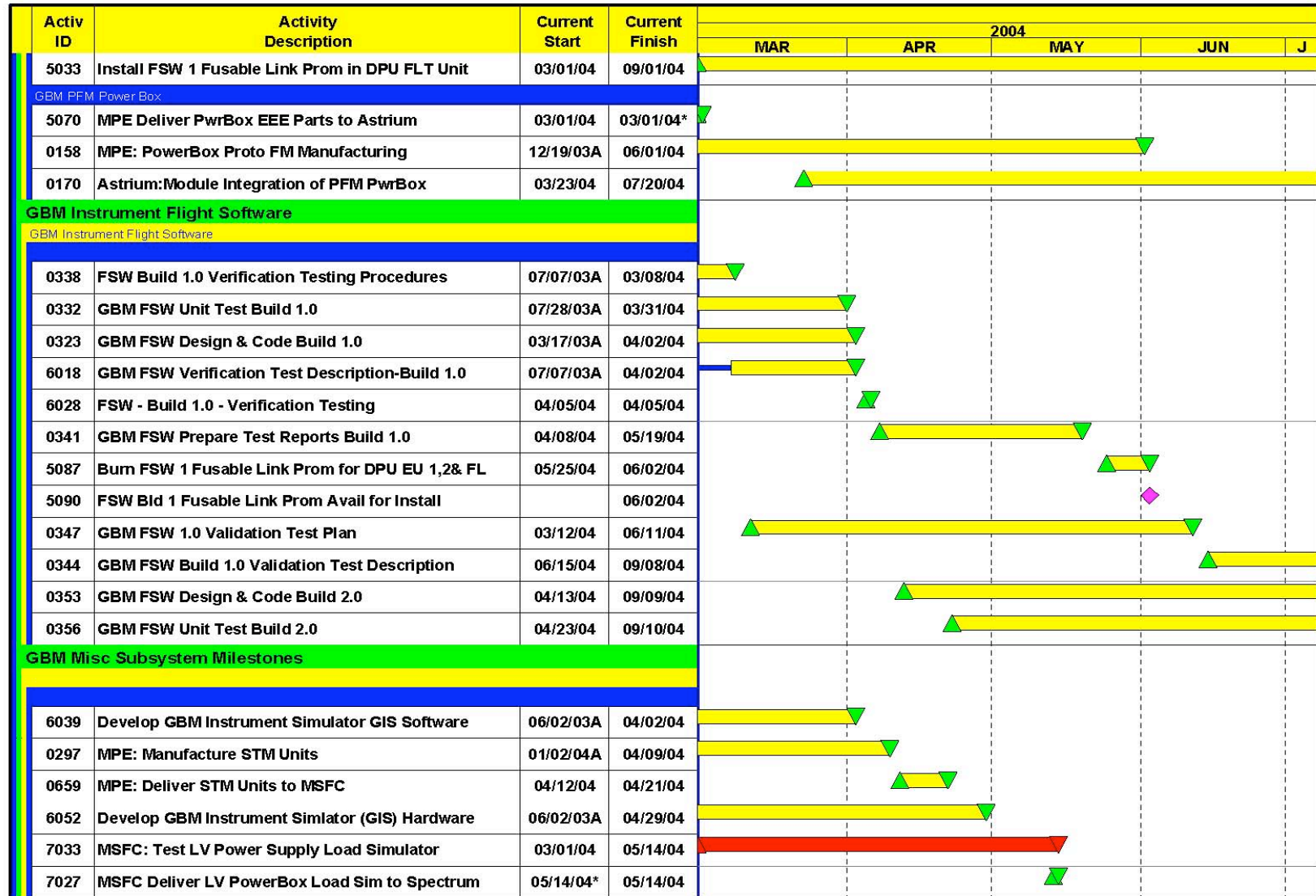
Rolling Wave Schedule



Sheet 3 of 5



Rolling Wave Schedule



Sheet 4 of 5



Rolling Wave Schedule



Activ ID	Activity Description	Current Start	Current Finish	2004				
				MAR	APR	MAY	JUN	J
7019	MSFC Rec Dtr Location&Cable Length from Spectrum	06/08/04*	06/08/04				X	
6073	Develop Ground Supt System (GSS-1) Software	10/01/03A	07/30/04					



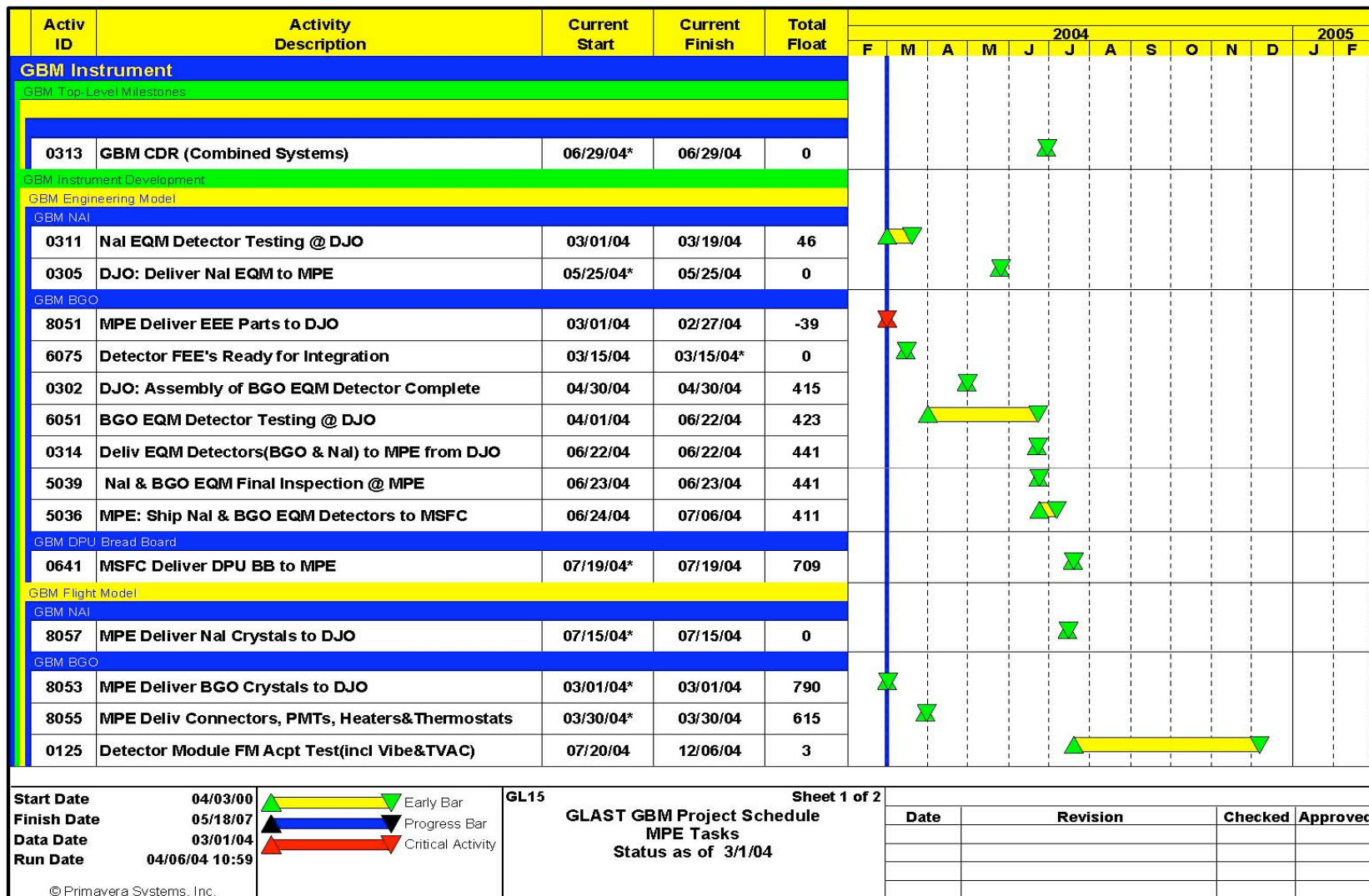
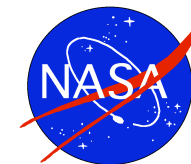
Deliverable Schedule



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7023	MSFC Receives SC Simulator (SIIS) from Spectrum	05/30/03A	05/30/03A	✖																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					



MPE Schedule





MPE Schedule



Activ ID	Activity Description	Current Start	Current Finish	Total Float	2004												2005	
					F	M	A	M	J	J	A	S	O	N	D	J	F	
0128	Performance Test on Subsystem (Detctrs&PwrBx)	07/08/04*	12/09/04	-1														
0215	MPE Pre-Ship Review (MPE PSR)	01/05/05	01/05/05	16														
0131	MPE Science Test (Calib)	12/13/04	01/18/05	-1														
GBM PFM Power Box																		
5070	MPE Deliver PwrBox EEE Parts to Astrium	03/01/04	03/01/04*	216														
0158	MPE: PowerBox Proto FM Manufacturing	12/19/03A	06/01/04	201														
0170	Astrium:Module Integration of PFM PwrBox	03/23/04	07/20/04	201														
0176	PwrBox ProtoFit Model Acpt Test(Incl Vibe/TVAC)	07/21/04	08/31/04	201														
GBM Integration --> Environmental Testing																		
GBM Integration --> Environmental Testing																		
0137	MSFC Receive Flight Unit from MPE		02/04/05	0														
GBM Misc Subsystem Milestones																		
0297	MPE: Manufacture STM Units	01/02/04A	04/09/04	51														
0659	MPE: Deliver STM Units to MSFC	04/12/04	04/21/04	51														